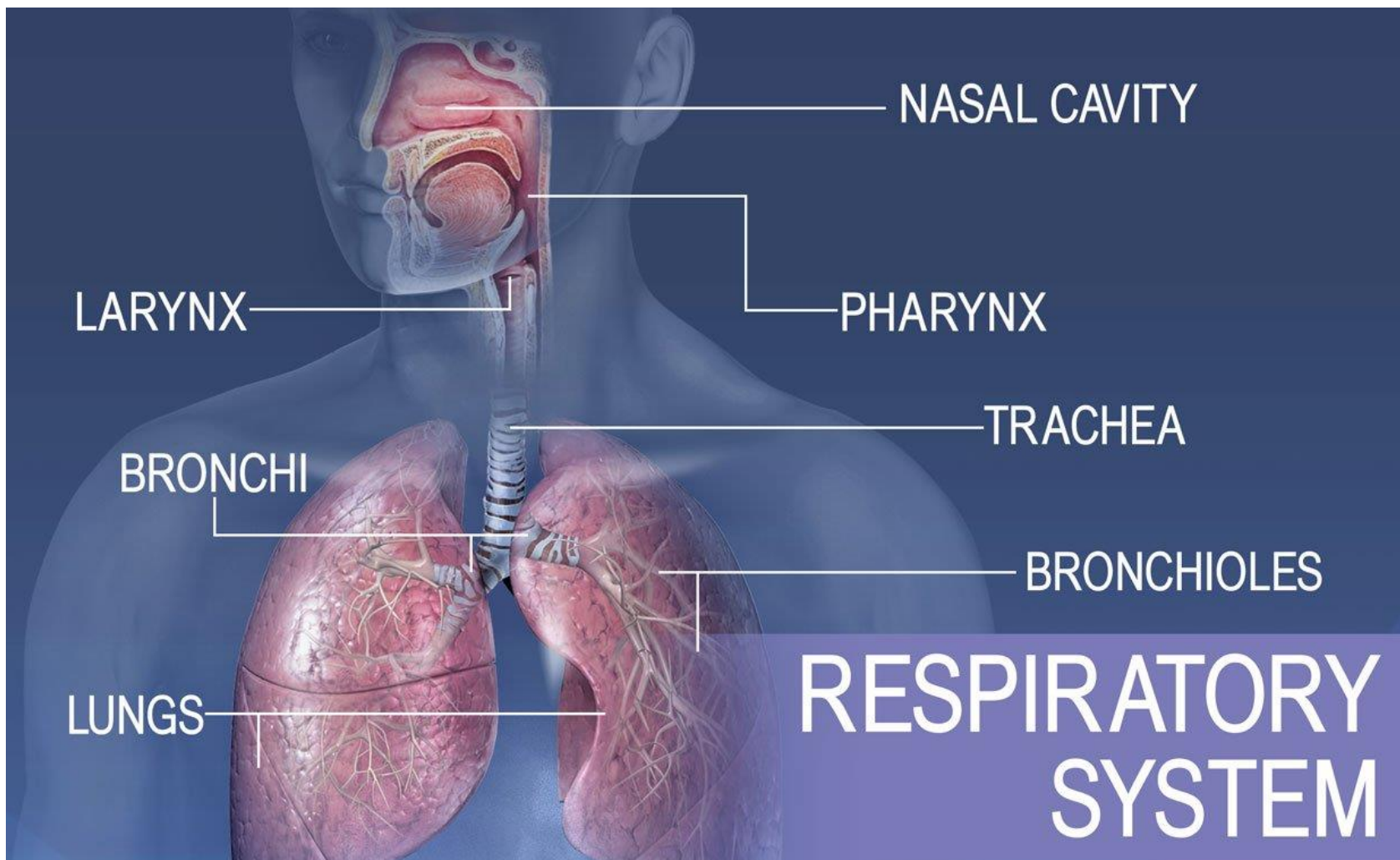




**BAQAI MEDICAL UNIVERSITY  
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**BAQAI MEDICAL UNIVERSITY**

51-Deh Tor, Gadap Road, Super Highway. P.O Box: 2407, Karachi-75340, Pakistan. Phone (092-21)34410-293 to 298, 34410-427 to 430.

Fax: (092-21)34410-317, 34410-43. Email: [info@baqai.edu.pk](mailto:info@baqai.edu.pk), Web: [www.baqai.edu.pk/](http://www.baqai.edu.pk/)



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MODULAR GUIDE 2024-25 - RESPIRATION**

**BAQAI MEDICAL UNIVERSITY**

**VISION STATEMENT**

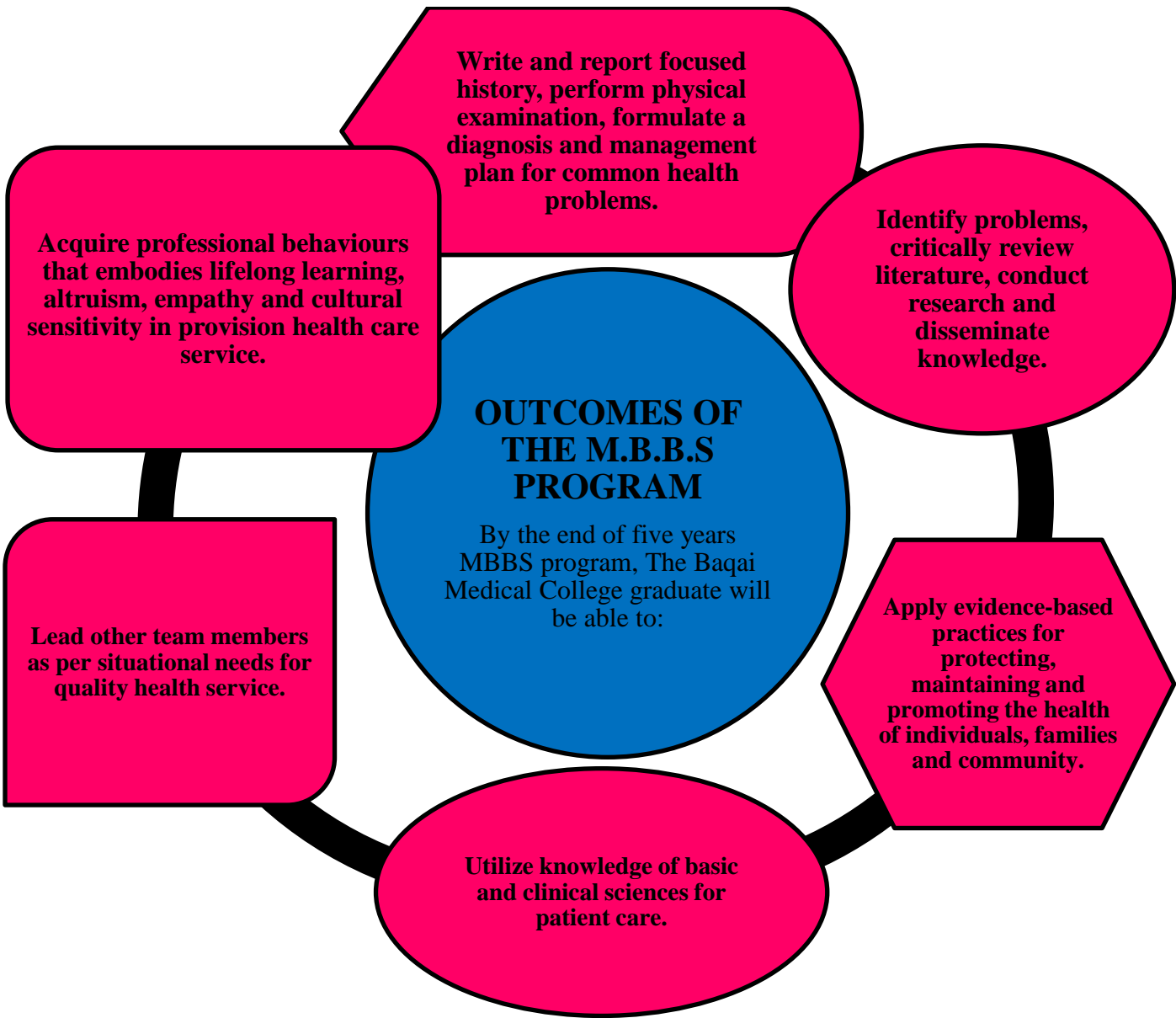
To evolve as a nucleus for higher learning with a resolution to be socially accountable, focused on producing accomplished health care professionals for services in all spheres of life at the national and global level.

**BAQAI MEDICAL UNIVERSITY  
MISSION STATEMENT**

University is dedicated to the growth of competencies in its potential graduates through dissemination of knowledge for patient care, innovation in scholarship, origination of leadership skills, and use of technological advancements and providing.

**BAQAI MEDICAL COLLEGE MISSION STATEMENT**

To produce medical graduates, who are accomplished and responsible individuals and have skills for problem solving, clinical judgment, research & leadership for medical practice at the international level and are also aware of the health problems of the less privileged rural and urban population of Pakistan.



**CURRICULUM COMMITTEE**

**CHAIRMAN CURRICULUM COMMITTEE**

PROF. DR FARRUKH NAHEED

**CO-CHAIRMAN CURRICULUM COMMITTEE**

DR MAEESA SAJEEL

**SECRETARY OF THE CURRICULUM COMMITTEE**

DR SAADIA AKRAM

**HEAD OF MBBS SPIRAL 1;**

PROF DR INAYAT ALI

**TEAM MEMBERS**



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**MODULAR GUIDE 2024-25 - RESPIRATION**

1<sup>ST</sup> YEAR MBBS (Coordinator)  
DR TAYYABA KAZMI

SUBJECT	TEAM MEMBERS
BIOCHEMISTRY	DR IFFAT      Coordinator
ANATOMY	DR ANEELA
PHSIOLOGY	DR ALI
BICHEMISTRY	DR FARHAN
PHARMACOLOGY	DR HINA
PATHOLOGY	DR ROZEENA
FORENSIC MEDICINE	DR RAFEY
COMMUNITY MEDICINE	DR AMMARA
MEDICINE	DR MASOODA FATIMA/ DR SAIMA ASKARI
SURGERY	DR DANISH/ DR ABDULLAH
GYNAE/ OBS	DR NIICHAT ASHRAF
RESEARCH	DR MARIA
PEARLS	DR MARIUM IBRAHIM
BEHAVIOR SCIENCES	DR AZRA SHAHEEN,
ORTHOPEADICS	DR DANISH/ DR ABDULLAH
RADIOLOGY	DR MEHWISH

**TIMETABLE AND STUDY GUIDE TEAM**

SUBJECT	TEAM MEMBERS
BIOCHEMISTRY	DR IFFAT    COORDINATOR
ANATOMY	DR ANEELA
PHSIOLOGY	DR ALI
BICHEMISTRY	DR FARHAN
PHARMACOLOGY	DR HINA
PATHOLOGY	DR ROZEENA
FORENSIC MEDICINE	DR RAFEY
COMMUNITY MEDICINE	DR AMMARA
MEDICINE	DR MASOODA FATIMA/ DR SAIMA ASKARI
SURGERY	DR DANISH/ DR ABDULLAH
GYNAE/ OBS	DR NIKI-IAT ASHRAF
RESEARCH	DR MARIA
PEARLS	DR MARIUM IBRAHIM
BEHAVIOR SCIENCES	DR AZRA SHAHEE
ORTHOPEADICS	DR DANISH/ DR ABDULLAH
RADIOLOGY	DR MEHWISH

**ASSESSMENT AND TOS**

SUBJECT	TEAM MEMBERS
PHSIOLOGY	DR ADNAN      Coordinator
ANATOMY	DR SABA AKRAM
BIOCHEMISTRY	DR IFFAT



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PHARMACOLOGY	DR HINA
PATHOLOGY	DR ROZEENA
FORENSIC MEDICINE	DR RAFEY
COMMUNITY MEDICINE	DR AMMARA
MEDICINE	DR ANEETA/ DR SAIMA ASKARI
SURGERY	DR DANISH/ DR ABDULLAH
GYNAE/ OBS	DR NIGHAT ASHRAF
RESEARCH	DR MARIA
PEARLS	DR MARIUM IBRAHIM
BEHAVIOR SCIENCES	DR AZRA SHAHEE
ENT	DR REHANA
RADIOLOGY	DR MEHWISH
EYE	DR M S FAHMI

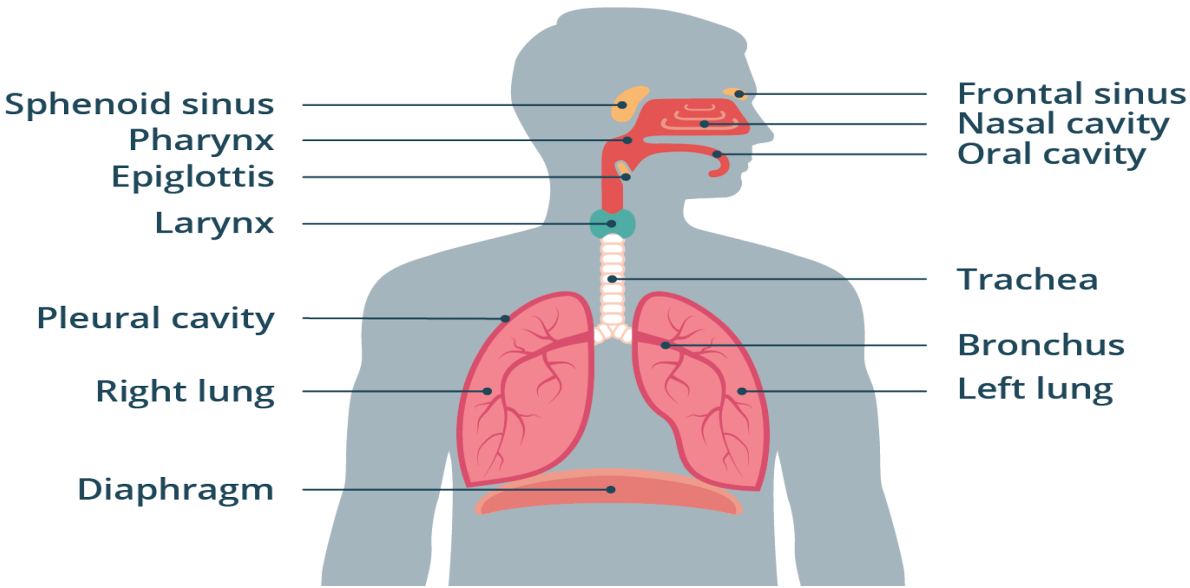
**CBL DEVELOPMENT TEAM**

SUBJECT	TEAM MEMBERS
BIOCHEMISTRY	DR KAHKASHAN                      COORDINATOR
PHYSIOLOGY	DR SABA LEEZA/ DR SALEEM ULLAH
ANATOMY	DR SHAHID PERVEZ



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MODULAR GUIDE 2024-25 - RESPIRATION**

**INTRODUCTION TO RESPIRATORY MODULE GUIDE**



**YEAR TO BE TAUGHT: First Professional M.B.B.S. 2024-25**

**PLACEMENT OF RESPIRATORY MODULE: FOURTH**

**Duration: 5 weeks + 1 day**

**Tentative Dates: 3<sup>RD</sup> SEP 24 – 7<sup>TH</sup> OCT 24**

**End of Module Assessment (EOA) Tentative Date: 7<sup>TH</sup> OCT 24**

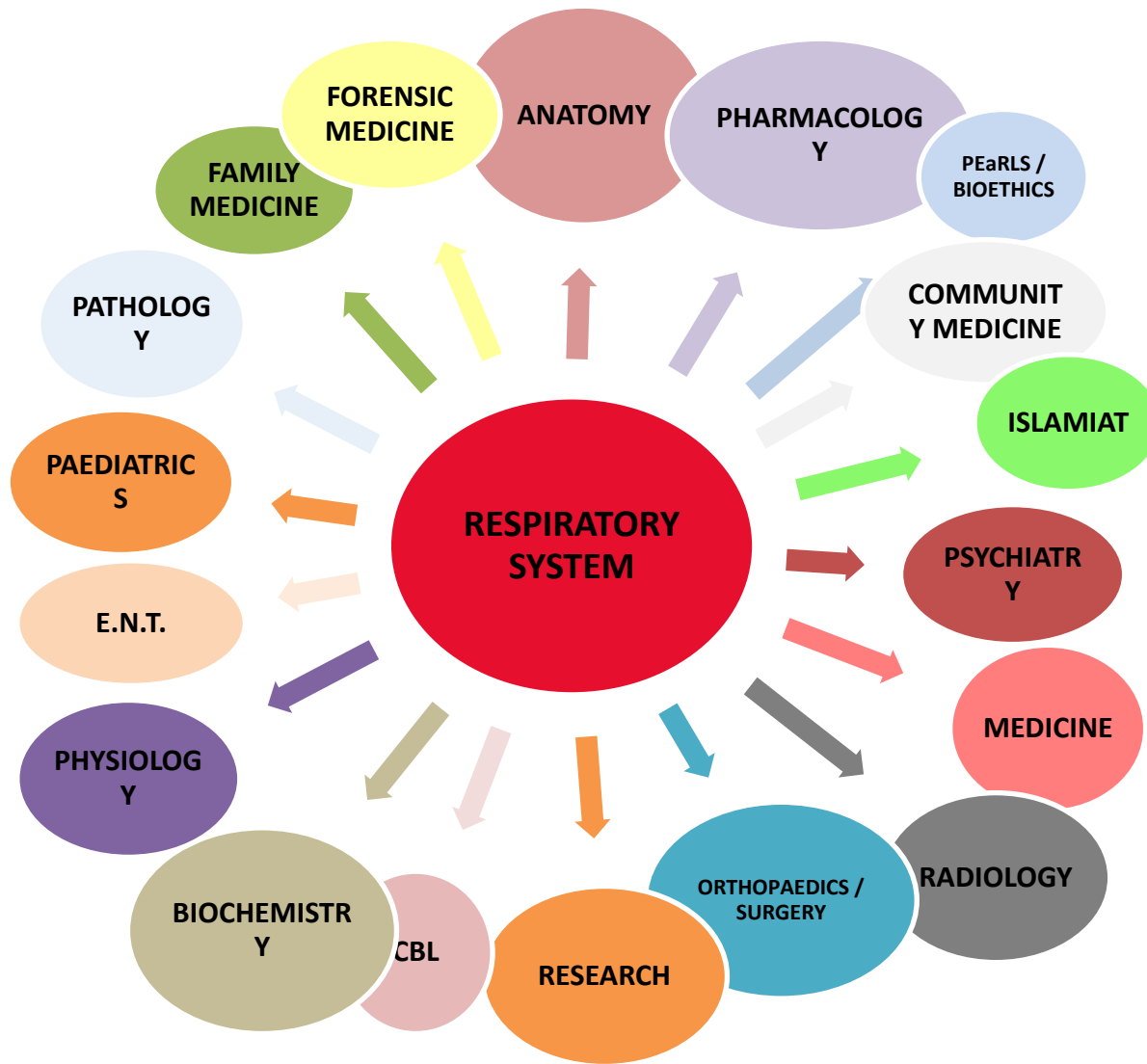
**MODULAR OUTCOME**

**This module deals the study of lungs and respiratory passageways. It consists of an extensive and in-depth study of the developmental, gross, functional, community related, pathological, and clinical & surgical aspects of respiratory system.**





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FIRST PROFESSIONAL M.B.B.S.  
MODULAR GUIDE 2024-25 - RESPIRATION**



**RESPIRATORY MODULAR OUTCOMES**

**At the end of the respiratory module, 1<sup>st</sup> year MBBS students will be able to:**

1. Discuss gross and radiological features of thorax along with the muscles and fascia of thorax.
2. Discuss the development of respiratory system with their associated congenital malformation.
3. Identify the gross and microscopic features of parts of respiratory system and their applied anatomy.
4. Describe the mechanics of pulmonary ventilation along with their pathologies.
5. Explain the transport of different gases along with their regulation.



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**FIRST PROFESSIONAL M.B.B.S.**  
**MODULAR GUIDE 2024-25 - RESPIRATION**

**INTEGRATED TEACHING**

TOPICS WITH OBJECTIVES	DEPARTMENT	TEACHING STRATEGY	DURATION	FACITILATOR	VENUE
<b>DEVELOPMENT OF STERNUM RIBS &amp; VERTEBRAE</b> <u>At the end of this lecture 1<sup>st</sup> year students will be able to:</u> <ul style="list-style-type: none"><li>Discuss the development of sternum</li><li>Discuss the stages of development of the vertebral column</li><li>Discuss the development of ribs from costal elements of primitive vertebrae</li><li>Clinically correlate to associated congenital anomalies including spina bifida, spondylolisthesis, scoliosis, kyphosis, extra rib, fused rib and pigeon shaped chest.</li></ul>	ANATOMY	LECTURE	60 MINS	DR TAYYABA	LECTURE HALL 1
<b>STERNUM</b> <u>At the end of this lecture 1<sup>st</sup> year students will be able to:</u> <ul style="list-style-type: none"><li>Describe the anatomical position of the sternum.</li><li>Enlist the bones including in the sternum?</li><li>Describe the muscles attachment and important structures passing around it.</li><li>Describe the location and shape of the sternum</li><li>Describe the parts of the sternum</li><li>Describe the articulations and muscle attachments</li><li>Discuss the relations and clinical importance</li><li>Correlate to applied anatomy</li></ul>	ANATOMY	LECTURE	60 MINS	DR ANEELA	LECTURE HALL 1
<b>THORACIC CAGE</b> <u>At the end of this lecture 1<sup>st</sup> year students will be able to:</u> <ul style="list-style-type: none"><li>Understand the structures of thoracic cage.</li><li>Learn the movements of thoracic wall.</li><li>Discuss the inlet and outlet of thorax.</li><li>Enlist the structure passing through it.</li></ul>	ANATOMY	LECTURE	60 MINS	DR HINA	LECTURE HALL 1
<b>UNDERSTANDING BEHAVIOUR</b> <u>At the end of this lecture 1<sup>st</sup> year students will be able to:</u> <ul style="list-style-type: none"><li>Define behaviour</li><li>Why behaviour differ in same situations</li><li>Define attention and concentration</li><li>What factors affect attention and concentration</li><li>How concentration can be improved</li></ul>	B. SCIENCES	LECTURE	60 MINS	MISS AZRA SHAHEEN	LECTURE HALL 1
<b>INTRODUCTION TO LIPIDS</b> <u>At the end of this lecture 1<sup>st</sup> year students will be able to:</u>	BIOCHEM	LECTURE	60 MINS	DR FARHAN	LECTURE HALL 1



BAQAI MEDICAL UNIVERSITY  
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FIRST PROFESSIONAL M.B.B.S.

MODULAR GUIDE 2024-25 - RESPIRATION

<ul style="list-style-type: none"><li>Define and classify lipids according to Bloor’s criteria</li><li>List the derived lipids of biological importance</li><li>List the simple lipids of biological importance</li><li>List the compound lipids of biological importance</li></ul>					
<b>DEVELOPMENT OF THORACIC WALL MUSCULATURE &amp; DIAPHRAGM WITH ITS ANOMALIES</b> <u>At the end of this lecture 1<sup>st</sup> year students will be able to:</u> <ul style="list-style-type: none"><li>Discuss the development of thoracic wall musculature &amp; diaphragm with its anomalies</li></ul>	ANATOMY	LECTURE	60 MINS	DR TAYYABA	LECTURE HALL 1
<b>GENERAL FEATURES + ATTACHMENT OF ATYPICAL RIBS</b> <u>At the end of this lecture 1<sup>st</sup> year students will be able to:</u> <ul style="list-style-type: none"><li>Identify the different parts of atypical rib.</li><li>Discuss the features of atypical ribs.</li></ul>	ANATOMY	LECTURE	60 MINS	DR AYESHA	LECTURE HALL 1
<b>GROSS FEATURES OF THORACIC VERTEBRAE</b> <u>At the end of this lecture 1<sup>st</sup> year students will be able to:</u> <ul style="list-style-type: none"><li>Describe the gross features of the thoracic vertebrae; vertebral body, IV disk, Laminae, pedicles, intervertebral foramina, processes and important ligaments.</li></ul>	ANATOMY	LECTURE	60 MINS	DR ANEELA	LECTURE HALL 1
<b>GENERAL FEATURES + ATTACHMENT OF TYPICAL RIBS</b> <u>At the end of this lecture 1<sup>st</sup> year students will be able to:</u> <ul style="list-style-type: none"><li>Classify the ribs.</li><li>Identify the different parts of typical rib.</li><li>Discuss the features of typical ribs.</li></ul>	ANATOMY	LECTURE	60 MINS	DR HINA	LECTURE HALL 1
<b>INTER COSTAL SPACES</b> <u>At the end of this lecture 1<sup>st</sup> year students will be able to:</u> <ul style="list-style-type: none"><li>Identify the different layers of thoracic walls</li><li>Identify Intercostal muscles</li><li>Discuss about the contents of intercostal spaces</li></ul>	ANATOMY	LECTURE	60 MINS	DR AYESHA	LECTURE HALL 1
<b>INTER COSTAL NEUROVASCULATRE</b> <u>At the end of this lecture 1<sup>st</sup> year students will be able to:</u> <ul style="list-style-type: none"><li>Describe the origin, course and branches/tributaries of intercostal vessels</li><li>Describe the origin, course and distribution of intercostal nerves</li><li>Discuss about the branches and course of internal thoracic artery</li></ul>	ANATOMY	LECTURE	60 MINS	DR ANEELA	LECTURE HALL 1





**BAQAI MEDICAL UNIVERSITY  
BAQAI MEDICAL COLLEGE  
FIRST PROFESSIONAL M.B.B.S.**

**MODULAR GUIDE 2024-25 - RESPIRATION**

<ul style="list-style-type: none"><li>Clinically correlate to the thoracic wall&amp; its abnormalities</li></ul>					
<b>DEVELOPMENT OF UPPER RESPIRATORY TRACT, NOSE &amp; ITS ANOMALIES</b> <u>At the end of this lecture 1<sup>st</sup> year students will be able to:</u> <ul style="list-style-type: none"><li>Enumerate the different Parts of Respiratory System</li><li>Discuss the formation &amp; development of nose &amp; its anomalies</li></ul>	ANATOMY	LECTURE	60 MINS	DR TAYYABA	LECTURE HALL 1
<b>JOINTS OF THORACIC CAGE</b> <u>At the end of this lecture 1<sup>st</sup> year students will be able to:</u> <ul style="list-style-type: none"><li>Classify the joints of thorax</li><li>Discuss the different joints of thoracic cavity</li><li>Identify the structures of the thoracic cavity</li></ul>	ANATOMY	LECTURE	60 MINS	DR HINA	LECTURE HALL 1
<b>NOSE</b> <u>At the end of this lecture 1<sup>st</sup> year students will be able to:</u> <ul style="list-style-type: none"><li>Describe the parts of the nose</li><li>Describe the features of each parts?</li><li>Name the structures forming the lateral and medial walls of the?</li><li>Describe the blood supply, nerve supply and lymphatics of each part?</li><li>Describe the functions and gross anatomy of the paranasal sinus</li></ul>	ANATOMY	LECTURE	60 MINS	DR AYESHA	LECTURE HALL 1
<b>HISTOLOGY OF NOSE</b> <u>At the end of this lecture 1<sup>st</sup> year students will be able to:</u> <ul style="list-style-type: none"><li>Describe the histological features of nose</li></ul>	ANATOMY	LECTURE	60 MINS	DR INAYAT	LECTURE HALL 1
<b>DEVELOPMENT OF LARYNX AND TRACHEA &amp; ITS ANAMOLIES</b> <u>At the end of this lecture 1<sup>st</sup> year students will be able to:</u> <ul style="list-style-type: none"><li>Discuss the formation of laryngo-tracheal tube</li><li>Describe the formation of trachea and its anamolies</li></ul>	ANATOMY	LECTURE	60 MINS	DR TAYYABA	LECTURE HALL 1
<b>DIAPHRAGM</b> <u>At the end of this lecture 1<sup>st</sup> year students will be able to:</u> <ul style="list-style-type: none"><li>Describe the origin and insertion of the diaphragm</li><li>Describe the nerve supply &amp; its movement</li><li>Describe the openings of the diaphragm with its content</li><li>Discuss the clinical correlates</li></ul>	ANATOMY	LECTURE	60 MINS	DR AYESHA	LECTURE HALL 1
<b>LARYNX</b> <u>At the end of this lecture 1<sup>st</sup> year students will be able to:</u> <ul style="list-style-type: none"><li>Describe the extent of it</li><li>Enlist the cartilage on it</li><li>Describe the mucosal folds</li><li>Describe the muscle of larynx</li><li>Describe the nerve supply and blood supply of larynx</li></ul>	ANATOMY	LECTURE	60 MINS	DR HINA	LECTURE HALL 1
<b>HISTOLOGY OF LARYNX</b>	ANATOMY	LECTURE	60 MINS	DR INAYAT	LECTURE HALL 1



**BAQAI MEDICAL UNIVERSITY  
BAQAI MEDICAL COLLEGE  
FIRST PROFESSIONAL M.B.B.S.**

**MODULAR GUIDE 2024-25 - RESPIRATION**

<b><u>At the end of this lecture 1<sup>st</sup> year students will be able to:</u></b> <ul style="list-style-type: none"><li>Describe the different layers of larynx</li><li>Discuss the histological characteristics of each layer of larynx</li><li>Describe the histological classification of laryngeal cartilage</li></ul>					
<b>TRACHEA</b> <b><u>At the end of this lecture 1<sup>st</sup> year students will be able to:</u></b> <ul style="list-style-type: none"><li>Describe the trachea.</li><li>Name the structures related to it.</li><li>Enlist the blood and nerve supply and lymphatic drainage.</li></ul>	<b>ANATOMY</b>	<b>LECTURE</b>	<b>60 MINS</b>	<b>DR ANEELA</b>	<b>LECTURE HALL 1</b>
<b>HISTOLOGY OF TRACHEA</b> <b><u>At the end of this lecture 1<sup>st</sup> year students will be able to:</u></b> <ul style="list-style-type: none"><li>Describe the structure of trachea and its layer</li><li>Describe the different layers of trachea and their histological characteristics</li></ul>	<b>ANATOMY</b>	<b>LECTURE</b>	<b>60 MINS</b>	<b>DR INAYAT</b>	<b>LECTURE HALL 1</b>
<b>RESPIRATORY PASSAGES, COUGH AND SNEEZING REFLEX:</b> <b><u>At the end of this lecture 1<sup>st</sup> year students will be able to:</u></b> <ul style="list-style-type: none"><li>Define and Explain cough reflex.</li><li>Define the sneezing reflex.</li><li>Enumerate functions of nose.</li><li>Define vocalization</li></ul>	<b>PHYSIO</b>	<b>LECTURE</b>	<b>60 MINS</b>	<b>DR M ALI</b>	<b>LECTURE HALL 1</b>
<b>OVERVIEW OF PHARMACOLOGY OF COUGH</b> <b><u>At the end of this lecture 1<sup>st</sup> year students will be able to:</u></b> <ul style="list-style-type: none"><li>Recall the physiology of cough reflex.</li><li>Discuss the pathophysiology of cough reflex.</li><li>Explain the mechanistic pharmacology of cough suppression and relaxants</li></ul>	<b>PHARMA</b>	<b>LECTURE</b>	<b>60 MINS</b>	<b>DR SEHRISH</b>	<b>LECTURE HALL 1</b>
<b>DEVELOPMENT OF BODY CAVITIES</b> <b><u>At the end of this lecture 1<sup>st</sup> year students will be able to:</u></b> <ul style="list-style-type: none"><li>Identify the intra embryonic mesoderm and its parts</li><li>State the division of lateral plate mesoderm into visceral and parietal layers enclosing intra embryonic caelome or body cavity</li><li>Recognize the cephalo-caudal and transverse foldings of embryonic disc</li><li>Describe the extent of intra embryonic coelom after folding and its divisions into three serous cavities</li><li>State the derivatives of visceral and parietal layers of mesoderm</li></ul>	<b>ANATOMY</b>	<b>LECTURE</b>	<b>60 MINS</b>	<b>DR TAYYABA</b>	<b>LECTURE HALL 1</b>
<b>PLEURA</b> <b><u>At the end of this lecture 1<sup>st</sup> year students will be able to:</u></b> <ul style="list-style-type: none"><li>Describe the gross features of pleura.</li><li>Explain the division of the pleural layers</li><li>Describe the pleural cavity and the pleural reflections</li></ul>	<b>ANATOMY</b>	<b>LECTURE</b>	<b>60 MINS</b>	<b>DR ANEELA</b>	<b>LECTURE HALL 1</b>



**BAQAI MEDICAL UNIVERSITY  
BAQAI MEDICAL COLLEGE  
FIRST PROFESSIONAL M.B.B.S.**

**MODULAR GUIDE 2024-25 - RESPIRATION**

<ul style="list-style-type: none"><li>Outline the surface anatomy related to pleural reflections</li><li>Memorize the nerve supply and blood supply of it.</li><li>Discuss the clinical application related to the topic</li></ul>					
<b>PLUERAL LESIONS</b> <u>At the end of this lecture 1st year students will be able to:</u> <ul style="list-style-type: none"><li>Define &amp; Describe the following conditions:</li><li>Pulmonary Effusion, Hydrothorax, Haemothorax, Pneumothorax, Chylothorax and Chylothorax</li></ul>	<b>PATHO</b>	<b>LECTURE</b>	<b>60 MINS</b>	<b>DR NASIMA</b>	<b>LECTURE HALL 1</b>
<b>DEVELOPMENT OF LUNG &amp; ITS DEVELOPMENTAL ANOMALIES</b> <u>At the end of this lecture 1st year students will be able to:</u> <ul style="list-style-type: none"><li>Discuss the formation of Lung Bud</li><li>Describe the Branches of Bronchi</li><li>Discuss the different Stages of development of Lung</li><li>Describe Maturation of Lung</li><li>Clinically correlate to the congenital errors during development</li></ul>	<b>ANATOMY</b>	<b>LECTURE</b>	<b>60 MINS</b>	<b>DR TAYYABA</b>	<b>LECTURE HALL 1</b>
<b>LUNGS</b> <u>At the end of this lecture 1st year students will be able to:</u> <ul style="list-style-type: none"><li>Enlist the surfaces of the lungs.</li><li>Differentiate left and right lung.</li><li>Explain the lobes, fissures and segments of each lung.</li><li>Describe root of the lungs.</li><li>Describe the bronco pulmonary segments and their importance</li><li>Name vascular supply and lymphatic drainage of it.</li><li>Discuss about the nerve supply to lungs , pulmonary plexus and the importance of phrenic nerve</li><li>Review the clinical conditions related to it.</li></ul>	<b>ANATOMY</b>	<b>LECTURE</b>	<b>60 MINS</b>	<b>DR HINA</b>	<b>LECTURE HALL 1</b>
<b>ALVEOLAR VENTILATION AND DEAD SPACE:</b> <u>At the end of this lecture 1st year students will be able to:</u> <ul style="list-style-type: none"><li>Define Ventilation. Calculate the alveolar ventilation.</li><li>Explain the “Dead Space” with its types</li><li>Name the methods of Measuring Dead Space.</li><li>Describe the Effect of Rapid &amp; Deep Breathing on Alveolar Ventilation.</li></ul>	<b>PHYSIO</b>	<b>LECTURE</b>	<b>60 MINS</b>	<b>DR ADNAN</b>	<b>LECTURE HALL 1</b>
<b>MECHANICS OF PULMONARY VENTILATION:</b> <u>At the end of this lecture 1st year students will be able to:</u> <ul style="list-style-type: none"><li>Identifies the muscles of respiration.</li><li>Define pleural pressure and its changes during respiration.</li><li>State alveolar pressure.</li><li>Identify the trans-pulmonary pressure.</li></ul>	<b>PHYSIO</b>	<b>LECTURE</b>	<b>60 MINS</b>	<b>DR M ALI</b>	<b>LECTURE HALL 1</b>



**BAQAI MEDICAL UNIVERSITY  
BAQAI MEDICAL COLLEGE  
FIRST PROFESSIONAL M.B.B.S.**

**MODULAR GUIDE 2024-25 - RESPIRATION**

<b>PULMONARY CIRCULATION, 3 ZONES ACCORDING TO BLOOD FLOW:</b> <b><u>At the end of this lecture 1<sup>st</sup> year students will be able to:</u></b> <ul style="list-style-type: none"><li>• Define pulmonary circulation.</li><li>• Summarize the zones of pulmonary circulation.</li><li>• Define Ventilation/ Perfusion (V/Q) Ratio &amp; effects of its mismatching.</li></ul>	<b>PHYSIO</b>	<b>LECTURE</b>	<b>60 MINS</b>	<b>DR SOBIA</b>	<b>LECTURE HALL 1</b>
<b>SURGICAL OVERVIEW IN LUNG &amp; PLEURAL DISEASE</b> <b><u>At the end of this lecture 1<sup>st</sup> year students will be able to:</u></b> <ol style="list-style-type: none"><li>1. Explain the anatomy and physiology of thorax</li><li>2. Discuss chest wall disorders</li><li>3. Know the investigations for chest pathology</li><li>4. Know the role of surgery in pleural diseases</li><li>5. Know the assessment plan of patients requiring lung surger</li></ol>	<b>SURGERY</b>	<b>LECTURE</b>	<b>60 MINS</b>	<b>DR DANISH</b>	<b>LECTURE HALL 1</b>
<b>HISTOLOGY OF LARYNX</b> <b><u>At the end of this practical 1<sup>st</sup> year students will be able to:</u></b> <ul style="list-style-type: none"><li>• Identify the slides under the light microscope for its point of identification and location.</li></ul>	<b>ANATOMY</b>	<b>PRACTICAL</b>	<b>120 MINS</b>	<b>DR ANEELA</b>	<b>HISTO LAB</b>
<b>SPIROMETRY:</b> <b><u>At the end of this practical 1<sup>st</sup> year students will be able to:</u></b> <ul style="list-style-type: none"><li>• Determine the vital capacity.</li></ul>	<b>PHYSIO</b>	<b>PRACTICAL</b>	<b>120 MINS</b>	<b>DR M ALI</b>	<b>PHYSIO LAB</b>
<b>SPECTROPHOTOMETRY (PRACTICAL)</b> <b><u>At the end of this practical 1<sup>st</sup> year students will be able to:</u></b> <ul style="list-style-type: none"><li>• Define spectrophotometry</li><li>• Identify visible light as part of the electromagnetic spectrum.</li><li>• Quote the application of spectrophotometer</li><li>• Identify the components on the equipment</li><li>• Describe the working of spectrophotometer.</li><li>• Discuss the terms Incident light, transmitted light, transmittance and optical density.</li><li>• Describe Lambert-Beers Law.</li><li>• Discuss the function of spectrophotometer with that of estimating the concentration of biomolecules in a solution</li></ul>	<b>BIOCHEM</b>	<b>PRACTICAL</b>	<b>120 MINS</b>	<b>DR FARHAN</b>	<b>BIOCHEM LAB</b>
<b>PULMONARY VOLUMES AND CAPACITIES:</b> <b><u>At the end of this lecture 1<sup>st</sup> year students will be able to:</u></b> <ul style="list-style-type: none"><li>• List the Components of Respiration.</li><li>• Explain the Exchange of gases at the respiratory membrane</li><li>• Recognizes the difference between respiratory zone and conducting zone</li></ul>	<b>PHYSIO</b>	<b>LECTURE</b>	<b>60 MINS</b>	<b>DR M ALI</b>	<b>LECTURE HALL 1</b>



**BAQAI MEDICAL UNIVERSITY  
BAQAI MEDICAL COLLEGE  
FIRST PROFESSIONAL M.B.B.S.**

**MODULAR GUIDE 2024-25 - RESPIRATION**

<ul style="list-style-type: none"><li>List &amp; Define Lung “Volumes” &amp; “Capacities”.</li></ul>					
<b>COMPLIANCE OF THE LUNGS</b> <u>At the end of this lecture 1<sup>st</sup> year students will be able to:</u> <ul style="list-style-type: none"><li>Define compliance of the lungs</li><li>List the factors affecting lung compliance.</li><li>Explain the compliance curve.</li><li>Explain the Compliance of the lungs and thoracic wall together.</li><li>Define the work of breathing.</li></ul>	<b>PHYSIO</b>	<b>LECTURE</b>	<b>60 MINS</b>	<b>DR QAMAR AZEEZ</b>	<b>LECTURE HALL 1</b>
<b>PHOSPHOLIPIDS</b> <u>At the end of this lecture 1<sup>st</sup> year students will be able to:</u> <ul style="list-style-type: none"><li>Define phospholipids.</li><li>Classify the phospholipids</li><li>Discuss the functions of phospholipids.</li><li>Explain the clinical importance of dipalmitoyl lecithin (DPL)</li></ul>	<b>BIOCHEM</b>	<b>LECTURE</b>	<b>60 MINS</b>	<b>DR FARHAN</b>	<b>LECTURE HALL 1</b>
<b>SURFACTANT</b> <u>At the end of this lecture 1<sup>st</sup> year students will be able to:</u> <ul style="list-style-type: none"><li>Explain the principles of surface tension</li><li>Explain the role of surfactant</li><li>Identify the relation of surface tension and the radius of alveoli.</li><li>Explain the effect on absence of surfactant on alveolar radius</li><li>Define respiratory distress syndrome.</li></ul>	<b>PHYSIO</b>	<b>LECTURE</b>	<b>60 MINS</b>	<b>DR SABA LEEZA</b>	<b>LECTURE HALL 1</b>
<b>GLYCOLIPIDS</b> <u>At the end of this lecture 1<sup>st</sup> year students will be able to:</u> <ul style="list-style-type: none"><li>List important glycolipids of biological importance</li><li>Differentiate in a tabular form between cerebroside and gangliosides</li></ul>	<b>BIOCHEM</b>	<b>LECTURE</b>	<b>60 MINS</b>	<b>DR FARHAN</b>	<b>LECTURE HALL 1</b>
<b>PREVENTION OF RESPIRATORY DISEASES</b> <u>At the end of this lecture 1<sup>st</sup> year students will be able to:</u> <ul style="list-style-type: none"><li>List the common respiratory diseases</li><li>Discuss various strategies and approaches for the prevention of respiratory diseases</li></ul>	<b>COMMUNITY MEDICINE</b>	<b>LECTURE</b>	<b>60 MINS</b>	<b>DR AMMARA</b>	<b>LECTURE HALL 1</b>
<b>ACUTE LUNG INJURY</b> <u>At the end of this lecture 1<sup>st</sup> year students will be able to:</u> <ul style="list-style-type: none"><li>Define Acute Respiratory Distress Syndrome</li><li>List its causes</li><li>Describe its Etiopathogenesis</li><li>Describe its Clinical Manifestations</li></ul>	<b>PATHO</b>	<b>LECTURE</b>	<b>60 MINS</b>	<b>DR NASEEMA</b>	<b>LECTURE HALL 1</b>
<b>PULMONARY CAPILLARY DYNAMICS, PULMONARY EDEMA:</b> <u>At the end of this lecture 1<sup>st</sup> year students will be able to:</u> <ul style="list-style-type: none"><li>Define dynamics of pulmonary capillaries.</li></ul>	<b>PHYSIO</b>	<b>LECTURE</b>	<b>60 MINS</b>	<b>DR M ALI</b>	<b>LECTURE HALL 1</b>





BAQAI MEDICAL UNIVERSITY  
BAQAI MEDICAL COLLEGE  
FIRST PROFESSIONAL M.B.B.S.

MODULAR GUIDE 2024-25 - RESPIRATION

<ul style="list-style-type: none"><li>List pressures in different pulmonary vessels.</li><li>Summarize the zones of pulmonary circulation</li><li>Summarize the development of pulmonary edema.</li></ul>					
<b>VASCULAR LUNG DISORDERS</b> <u>At the end of this lecture 1<sup>st</sup> year students will be able to:</u> <ul style="list-style-type: none"><li>Define &amp; Describe the following lesions:</li><li>Pulmonary Embolism, Pulmonary Hemorrhage, Pulmonary Infarction And Pulmonary Hypertension</li></ul>	<b>PATHO</b>	<b>LECTURE</b>	<b>60 MINS</b>	<b>DR NASEEMA</b>	<b>LECTURE HALL 1</b>
<b>FATTY ACIDS, GLYCEROL AND ESSENTIAL FATTY ACIDS I</b> <u>At the end of this lecture 1<sup>st</sup> year students will be able to:</u> <ul style="list-style-type: none"><li>Define fatty acids and classify them.</li><li>List the biological of essential fatty acids</li></ul>	<b>BIOCHEM</b>	<b>LECTURE</b>	<b>60 MINS</b>	<b>DR FARHAN</b>	<b>LECTURE HALL 1</b>
<b>FATTY ACIDS, GLYCEROL AND ESSENTIAL FATTY ACIDS II</b> <u>At the end of this lecture 1<sup>st</sup> year students will be able to:</u> <ul style="list-style-type: none"><li>List the sources and clinical uses of glycerol</li><li>Recall the structure of triglycerides</li></ul>	<b>BIOCHEM</b>	<b>LECTURE</b>	<b>60 MINS</b>	<b>DR FARHAN</b>	<b>LECTURE HALL 1</b>
<b>BIOLOGICAL OXIDATION-1</b> <u>At the end of this lecture 1<sup>st</sup> year students will be able to:</u> <ul style="list-style-type: none"><li>Define biological oxidation</li><li>Explain the process of biological oxidation with ATP synthesis</li><li>List the co-enzymes involved in biological oxidation</li><li>Define electron transport chain.</li><li>Discuss about mitochondrial electron transport chain.</li><li>Identify the importance of use of oxygen in electron transport chain.</li><li>List the inhibitors of the electron transport chain.</li></ul>	<b>BIOCHEM</b>	<b>LECTURE</b>	<b>60 MINS</b>	<b>DR IFFAT</b>	<b>LECTURE HALL 1</b>
<b>TRANSPORT OF OXYGEN:</b> <u>At the end of this lecture 1<sup>st</sup> year students will be able to:</u> <ul style="list-style-type: none"><li>Identifies the role of partial pressure of O<sub>2</sub> in downhill transport of O<sub>2</sub> from the lungs to the tissues(diffusion of oxygen)</li><li>Explain the stepwise association of oxygen molecule (O<sub>2</sub>) with hemoglobin</li><li>Define the saturation of hemoglobin with oxygen and P<sub>50</sub>.</li></ul>	<b>PHYSIO</b>	<b>LECTURE</b>	<b>60 MINS</b>	<b>DR M ALI</b>	<b>LECTURE HALL 1</b>
<b>O<sub>2</sub>-HB DISSOCIATION CURVE-I</b> <u>At the end of this lecture 1<sup>st</sup> year students will be able to:</u> <ul style="list-style-type: none"><li>List the stepwise reversible combination of O<sub>2</sub> transport from the lungs to the body tissues.</li></ul>	<b>PHYSIO</b>	<b>LECTURE</b>	<b>60 MINS</b>	<b>DR M ALI</b>	<b>LECTURE HALL 1</b>



BAQAI MEDICAL UNIVERSITY  
BAQAI MEDICAL COLLEGE  
FIRST PROFESSIONAL M.B.B.S.

MODULAR GUIDE 2024-25 - RESPIRATION

<ul style="list-style-type: none"><li>• Explain the Oxy – Hb dissociation curve</li><li>• Define the shape of the curve</li><li>• Explain the plotting of the curve</li><li>• Define 50% (P50) saturation of hemoglobin</li><li>• Explain the factor affecting Hb-O2 curve</li><li>• Enumerate the conditions causing right-ward shift</li><li>• Enumerate the conditions causing left-ward shift</li></ul>					
<b>O<sub>2</sub>-HB DISSOCIATION CURVE-II</b> <b><u>At the end of this lecture 1<sup>st</sup> year students will be able to:</u></b> <ul style="list-style-type: none"><li>• Explain the maximum amount of oxygen which combines with hemoglobin</li><li>• Explain the maximum amount of O2 released from hemoglobin in tissues.</li><li>• Explain the transport of O2 during exercise</li><li>• Define utilization coefficient.</li><li>• Summerisez the factors affecting O2 diffusion.</li><li>• Define O2 transport in dissolved state.</li><li>• Explain the usage of O2 by the cells.</li><li>• Identifies the importance of Carbon monoxide Poisoning in Hb-O2 dissociation curve.</li><li>• Explain the Bohr’s effect.</li></ul>	PHYSIO	LECTURE	60 MINS	DR M ALI	LECTURE HALL 1
<b>BIOLOGICAL OXIDATION-2</b> <b><u>At the end of this lecture 1<sup>st</sup> year students will be able to:</u></b> <ul style="list-style-type: none"><li>• Define oxidative phosphorylation</li><li>• Discuss the role of Electron Transport chain and oxidative phosphorylation with emphasis on Mitchell’s chemiosmotic hypothesis.</li><li>• Explain the structure of ATP synthase enzyme with the process of ATP production in mitochondria.</li><li>• Define uncouplers and relate their function</li></ul>	BIOCHEM	LECTURE	60 MINS	DR BEENISH	LECTURE HALL 1
<b>TRANSPORTATION OF CO<sub>2</sub>:</b> <b><u>At the end of this lecture 1<sup>st</sup> year students will be able to:</u></b> <ul style="list-style-type: none"><li>• Define the average transport of CO2 from tissues to the lungs</li><li>• Define the important role of CO2 in PH regulation of body fluids.</li><li>• Enumerate the three important forms of CO2 Transport from Tissues to the Lungs.</li><li>• Explain the transportation of CO2 in bicarbonate form.</li><li>• Describe the Process of “Chloride Shift”.</li><li>• Define reversal of chloride shift.</li><li>• Explain the Effects of “Hypo” &amp; “Hyperventilation” on Blood pH</li></ul>	PHYSIO	LECTURE	60 MINS	DR M ALI	LECTURE HALL 1



BAQAI MEDICAL UNIVERSITY  
BAQAI MEDICAL COLLEGE  
FIRST PROFESSIONAL M.B.B.S.

MODULAR GUIDE 2024-25 - RESPIRATION

<ul style="list-style-type: none"><li>Explain Haldane effect, compare it with Bohr effect</li></ul>					
<b>HISTOLOGY OF TRACHEA</b> <u>At the end of this practical 1<sup>st</sup> year students will be able to:</u> <ul style="list-style-type: none"><li>Identify the slides under the light microscope for its point of identification and location.</li></ul>	ANATOMY	PRACTICAL	120 MINS	DR ANEELA	HISTO LAB
<b>PULSE OXIMETER:</b> <u>At the end of this practical 1<sup>st</sup> year students will be able to:</u> <ul style="list-style-type: none"><li>Explain the normal oxygen saturation in arterial blood</li><li>Describe the two things a pulse oximeter can measure</li><li>List the parameters that are displayed on a pulse oximeter screen</li><li>Enlist the conditions which are not measured by a pulse oximeter</li><li>Discuss what should be done when the saturation falls</li><li>Review and understand the applicable regulation relative to monitoring pulse oximetry.</li><li>List the use of pulse oximetry</li><li>Describe patient conditions that may affect pulse oximetry accuracy</li><li>Demonstrate a comprehensive patient assessment utilizing pulse oximetry.</li><li>List the precautions taken while monitoring pulse oximetry</li><li>Demonstrate the procedure of pulse oximetry monitoring</li></ul>	PHYSIO	PRACTICAL	120 MINS	DR M ALI	PHYSIO LAB
<b>INTRODUCTION TO PRACTICALS OF ESTIMATION OF BIOCHEMICAL PARAMETERS</b> <u>At the end of this practical 1<sup>st</sup> year students will be able to:</u> <ul style="list-style-type: none"><li>List the type of body fluids to estimate the value of a biochemical parameter.</li><li>Describe the concept of interpreting a result.</li><li>Define the terms stock standard solution and sample size.</li><li>Identify the need for using stock standard solutions</li><li>Calculate the concentration of stock standard solutions</li><li>Draw a concentration and optical density graph to construct a ‘line of best fit’ for the purpose of obtaining the concentration of sample</li></ul>	BIOCHEM	PRACTICAL	120 MINS	DR FARHAN	BIOCHEM LAB
<b>RESPIRATORY ILLNESS IN CHILDREN</b> <u>At the end of this lecture 1<sup>st</sup> year students will be able to:</u> <ul style="list-style-type: none"><li>Common presentation of respiratory illness in children.</li><li>Difference b/w upper and lower respiratory tract disorders.</li><li>Causes of stridor in children (viral croup and acute epiglottitis).</li></ul>	PAEDS	LECTURE	60 MINS	DR SABA	LECTURE HALL 1



BAQAI MEDICAL UNIVERSITY  
BAQAI MEDICAL COLLEGE  
FIRST PROFESSIONAL M.B.B.S.

MODULAR GUIDE 2024-25 - RESPIRATION

<ul style="list-style-type: none"><li>Brief review of community acquired pneumonia and bronchiolitis.</li><li>Causes of wheeze in children (foreign body and asthma).</li></ul>					
<b>RESPIRATORY CHANGES DURING PREGNANCY</b> <u>At the end of this lecture 1<sup>st</sup> year students will be able to:</u> <ul style="list-style-type: none"><li>Memorize the ventilator changes occurring during pregnancy.</li><li>Explain the blood gases and acid base changes during pregnancy.</li><li>Describe the ventilator and anatomical changes giving rise to breathlessness in pregnancy.</li></ul>	GYNEA	LECTURE	60 MINS	DR NIKHAT	LECTURE HALL 1
<b>REGULATION OF RESPIRATION DURING EXERCISE:</b> <u>At the end of this lecture 1<sup>st</sup> year students will be able to:</u> <ul style="list-style-type: none"><li>Enlist the Effects of exercise on Respiration and Pulmonary ventilation</li><li>Correlates the chemical and nervous factors in controlling respiration during exercise.</li><li>Explain the changes in tissues during exercise.</li><li>Summarizes effects on Diffusing Capacity for O<sub>2</sub> and consumption of O<sub>2</sub>.</li><li>Summarizes the effects on Oxygen Debt</li><li>Summarizes effects on V02 Max</li><li>Define Respiratory Quotient.</li><li>Define cheyne stroke breathing.</li></ul>	PHYSIO	LECTURE	60 MINS	DR M ALI	LECTURE HALL 1
<b>REGULATION OF RESPIRATION:</b> <u>At the end of this lecture 1<sup>st</sup> year students will be able to:</u> <ul style="list-style-type: none"><li>Summarize the Control Mechanisms of Breathing.</li><li>Define Nervous regulation.</li><li>List the Respiratory Centers with their Functions.</li><li>Describe the Role of “DRG” in “Ramp Signals”.</li><li>Define &amp; Explain Hering – Breuer Inflation Reflex</li></ul>	PHYSIO	LECTURE	60 MINS	DR M ALI	LECTURE HALL 1
<b>TOBACCO AND ITS EFFECTS ON RESPIRATORY SYSTEM</b> <u>At the end of this lecture 1<sup>st</sup> year students will be able to:</u> <ul style="list-style-type: none"><li>Describe the composition of tobacco and its effects on respiratory system</li><li>Discuss the strategies for prevention of tobacco use.</li></ul>	C. MEDICINE	LECTURE	60 MINS	DR AMMARA	LECTURE HALL 1
<b>CHEMICAL CONTROL OF RESPIRATION:</b> <u>At the end of this lecture 1<sup>st</sup> year students will be able to:</u> <ul style="list-style-type: none"><li>Define peripheral chemoreceptors</li><li>Explain the role of Arterial O<sub>2</sub> in chemical control.</li><li>Discuss the basic mechanism of stimulation of</li></ul>	PHYSIO	LECTURE	60 MINS	DR M ALI	LECTURE HALL 1



**BAQAI MEDICAL UNIVERSITY  
BAQAI MEDICAL COLLEGE  
FIRST PROFESSIONAL M.B.B.S.**

**MODULAR GUIDE 2024-25 - RESPIRATION**

chemoreceptors by a decrease in PO <sub>2</sub> <ul style="list-style-type: none"><li>• Explain the role of chemosensitive area in chemical control.</li><li>• Discuss the excitation of chemosensitive area, H<sup>+</sup> concentration directly.</li><li>• Explain the indirect effect of CO<sub>2</sub> on chemosensitive area</li></ul>					
<b>RESTRICTIVE &amp; OBSTRUCTIVE LUNG DISEASES</b> <u>At the end of this lecture 1<sup>st</sup> year students will be able to:</u> <ul style="list-style-type: none"><li>• Define Restrictive &amp; Obstructive Lung Diseases</li><li>• List the Diseases which fall into each Category</li><li>• Explain their Etipathogenesis</li><li>• List their Clinical Manifestations</li></ul>	<b>PATHO</b>	<b>LECTURE</b>	<b>60 MINS</b>	<b>DR MUNAZZA</b>	<b>LECTURE HALL 1</b>
<b>COPD</b> <u>At the end of this lecture 1<sup>st</sup> year students will be able to:</u> <ul style="list-style-type: none"><li>• Discuss definition and types of chronic obstructive lung disease</li><li>• Describe etiology and pathophysiology of asthma</li><li>• Memorize clinical manifestations with which COPD patients presents</li><li>• Develop an investigational plan used to diagnose COPD</li><li>• Demonstrate names of the drugs used to treat COPD</li></ul>	<b>MEDICINE</b>	<b>LECTURE</b>	<b>60 MINS</b>	<b>DR MASOODA</b>	<b>LECTURE HALL 1</b>
<b>ASTHMA</b> <u>At the end of this lecture 1<sup>st</sup> year students will be able to:</u> <ul style="list-style-type: none"><li>• Define Asthma</li><li>• Describe its Etiopathogenesis</li><li>• List its clinical complications</li></ul>	<b>PATHO</b>	<b>LECTURE</b>	<b>60 MINS</b>	<b>DR NASEEMA</b>	<b>LECTURE HALL 1</b>
<b>EICOSANOIDS, THEIR CLASSIFICATION AND FUNCTIONS IN HEALTH AND DISEASE I</b> <u>At the end of this lecture 1<sup>st</sup> year students will be able to:</u> <ul style="list-style-type: none"><li>• Define eicosanoids</li><li>• Classify prostaglandins into 4 major groups.</li><li>• Discuss the synthesis and catabolism of prostaglandins.</li></ul>	<b>BIOCHEM</b>	<b>LECTURE</b>	<b>60 MINS</b>	<b>DR FARHAN</b>	<b>LECTURE HALL 1</b>
<b>EICOSANOIDS, THEIR CLASSIFICATION AND FUNCTIONS IN HEALTH AND DISEASE II</b> <u>At the end of this lecture 1<sup>st</sup> year students will be able to:</u> <ul style="list-style-type: none"><li>• List the important inhibitors and stimulants of PG synthesis</li><li>• Identify the occurrence and distribution of PGs in the body</li><li>• Discuss the important function of PGs</li><li>• List the functions of other eicosanoids: prostacyclins, thromboxanes, leukotrienes and lipoxins</li></ul>	<b>BIOCHEM</b>	<b>LECTURE</b>	<b>60 MINS</b>	<b>DR FARHAN</b>	<b>LECTURE HALL 1</b>
<b>ASTHMA</b> <u>At the end of this lecture 1<sup>st</sup> year students will be able to:</u>	<b>MEDICINE</b>	<b>LECTURE</b>	<b>60 MINS</b>	<b>DR MASOODA</b>	<b>LECTURE HALL 1</b>





**BAQAI MEDICAL UNIVERSITY  
BAQAI MEDICAL COLLEGE  
FIRST PROFESSIONAL M.B.B.S.**

**MODULAR GUIDE 2024-25 - RESPIRATION**

<ul style="list-style-type: none"><li>Describe definition and etiology of asthma</li><li>Summarize pathophysiology of asthma</li><li>Identify clinical features with which asthma patients presents</li><li>Propose investigations used to diagnose asthma</li><li>Demonstrate names of the drugs used to treat asthma</li></ul>					
<b>ASPHYXIA-I</b> <b><u>At the end of this lecture 1<sup>st</sup> year students will be able to:</u></b> <ul style="list-style-type: none"><li><b>Define Asphyxia with the mention of its Types.</b></li><li><b>Demonstrate Anatomy of the Neck &amp; Effects of Pressure on the Neck.</b></li><li><b>Classify Asphyxial Deaths.</b></li><li><b>Demonstrate Levels of Obstruction to Types of Mechanical Asphyxia.</b></li><li><b>Describe Physiology, Biochemistry &amp; Pathology of Fatal Asphyxia.</b></li></ul>	<b>FORENSIC MEDICINE</b>	<b>LECTURE</b>	<b>60 MINS</b>	<b>DR RAFEY</b>	<b>LECTURE HALL 1</b>
<b>HYPOXIA AND O<sub>2</sub> THERAPY:</b> <b><u>At the end of this lecture 1<sup>st</sup> year students will be able to:</u></b> <ul style="list-style-type: none"><li>Define Hypoxia, and differentiate hypoxia from Hypoxemia</li><li>List the Types of Hypoxia.</li><li>Summarize the different types of Hypoxia</li><li>Explain O<sub>2</sub> therapy in different types of Hypoxia.</li><li>Summarize the Benefits of O<sub>2</sub> Therapy in Hypoxia</li></ul>	<b>PHYSIO</b>	<b>LECTURE</b>	<b>60 MINS</b>	<b>DR M ALI</b>	<b>LECTURE HALL 1</b>
<b>HISTOLOGY OF LUNGS</b> <b><u>At the end of this practical 1<sup>st</sup> year students will be able to:</u></b> <ul style="list-style-type: none"><li>Identify the slides under the light microscope for its point of identification and location.</li></ul>	<b>ANATOMY</b>	<b>PRACTICAL</b>	<b>120 MINS</b>	<b>DR ANEELA</b>	<b>HISTO LAB</b>
<b>PEAK EXPIRATORY FLOW RATE:</b> <b><u>At the end of this practical 1<sup>st</sup> year students will be able to:</u></b> Record the peak expiratory flow rate	<b>PHYSIO</b>	<b>PRACTICAL</b>	<b>120 MINS</b>	<b>DR M ALI</b>	<b>PHYSIO LAB</b>
<b>OXIDATION OF EVEN CHAIN FATTY ACIDS 1(LIPID METABOLISM)</b> <b><u>At the end of this lecture 1<sup>st</sup> year students will be able to:</u></b> <ul style="list-style-type: none"><li>Discuss the <math>\beta</math>-oxidation of fatty acids.</li><li>Discuss the use of fatty acids for energy by cardiac muscles in fasting state</li><li>Identify the role of carnitine in <math>\beta</math>-oxidation of fatty acids.</li><li>Describe the end product and reactions involved in <math>\beta</math>-oxidation of even chain fatty acids</li></ul>	<b>BIOCHEM</b>	<b>LECTURE</b>	<b>60 MINS</b>	<b>DR IFFAT</b>	<b>LECTURE HALL 1</b>
<b>CYANOSIS:</b> <b><u>At the end of this lecture 1<sup>st</sup> year students will be able to:</u></b> <ul style="list-style-type: none"><li>Explain cyanosis</li><li>Enumerate the types of cyanosis.</li><li>Define atelectasis.</li></ul>	<b>PHYSIO</b>	<b>LECTURE</b>	<b>60 MINS</b>	<b>DR M ALI</b>	<b>LECTURE HALL 1</b>



BAQAI MEDICAL UNIVERSITY  
BAQAI MEDICAL COLLEGE  
FIRST PROFESSIONAL M.B.B.S.

MODULAR GUIDE 2024-25 - RESPIRATION

<ul style="list-style-type: none"><li>Enumerate the causes of atelectasis.</li><li>Define Hypercapnia.</li><li>Define Pneumonia</li><li>Define Asthma</li></ul>					
<b>INTRODUCTION TO ACID BASE BALANCE BIOCHEM</b> <u>At the end of this lecture 1<sup>st</sup> year students will be able to:</u> <ul style="list-style-type: none"><li>Define pH, acids and bases with suitable examples.</li><li>Differentiate between strong and weak acids and bases</li></ul>	BIOCHEM	LECTURE	60 MINS	DR IFFAT	LECTURE HALL 1
<b>ARTIFICIAL RESPIRATION:</b> <u>At the end of this lecture 1<sup>st</sup> year students will be able to:</u> <ul style="list-style-type: none"><li>State the ideal method of artificial respiration</li><li>Describe the requirements of artificial breathing</li><li>Compare the difference between both breathing</li></ul>	PHYSIO	LECTURE	60 MINS	DR ADNAN	LECTURE HALL 1
<b>PULMONARY INFECTIONS</b> <u>At the end of this lecture 1<sup>st</sup> year students will be able to:</u> <ul style="list-style-type: none"><li>Define Pneumonia</li><li>Describe its Etiopathogenesis</li><li>Describe its clinical manifestations</li></ul>	PATHO	LECTURE	60 MINS	DR MUNAZZA	LECTURE HALL 1
<b>HYPER CAPNIA:</b> <u>At the end of this lecture 1<sup>st</sup> year students will be able to:</u> <ul style="list-style-type: none"><li>Summarize hypercapnia.</li><li>Explain hypercapnia during asphyxia.</li><li>Define dyspnea</li><li>Explain the effects of drowning on respiration.</li></ul>	PHYSIO	LECTURE	60 MINS	DR ADNAN	LECTURE HALL 1
<b>ASPHYXIA-II</b> <u>At the end of this lecture 1<sup>st</sup> year students will be able to:</u> <ul style="list-style-type: none"><li>Discuss the Etiology and Pathophysiology of Asphyxia.</li><li>Detail Asphyxial Stigmata / Traditionally accepted Signs of Asphyxia on the basis of their Pathogenesis.</li><li>List Suffocation &amp; its Types.</li><li>Discuss ML aspects of Smothering, Gagging, Choking, Traumatic Asphyxia, Burking, etc.</li></ul>	FORENSIC MEDICINE	LECTURE	60 MINS	DR RAFEY	LECTURE HALL 1
<b>ACCLIMATIZATION-I:</b> <u>At the end of this lecture 1<sup>st</sup> year students will be able to:</u> <ul style="list-style-type: none"><li>Define Acclimatization.</li><li>Explain the Acclimatization of the Body in Response to Hypoxia.</li><li>Explain the role of arterial chemoreceptors at high altitudes.</li><li>Summarize the increase in RBC and Hb levels during acclimatization.</li><li>Identifies an increase in the diffusing capacity of O<sub>2</sub> through the respiratory membrane</li></ul>	PHYSIO	LECTURE	60 MINS	DR M ALI	LECTURE HALL 1



**BAQAI MEDICAL UNIVERSITY  
BAQAI MEDICAL COLLEGE  
FIRST PROFESSIONAL M.B.B.S.**

**MODULAR GUIDE 2024-25 - RESPIRATION**

<b>ENERGETICS OF BETA OXIDATION OF EVEN CHAIN FATTY ACIDS (LIPID METABOLISM)</b> <u>At the end of this lecture 1<sup>st</sup> year students will be able to:</u> <ul style="list-style-type: none"><li>Describe the energetics produced by <math>\beta</math>-oxidation of 16-Carbon fatty acid palmitate</li><li>Explain the Odd chain fatty acid oxidation</li></ul>	BIOCHEM	LECTURE	60 MINS	DR IFFAT	LECTURE HALL 1
<b>PNEUMONIA</b> <u>At the end of this lecture 1<sup>st</sup> year students will be able to:</u> <ul style="list-style-type: none"><li>Discuss briefly the strategies for preventing pneumonia in children</li><li>Discuss the strategies for preventing pneumonia in adults.</li></ul>	C.MEDICINE	LECTURE	60 MINS	DR AMMARA	LECTURE HALL 1
<b>BUFFERS</b> <u>At the end of this lecture 1<sup>st</sup> year students will be able to:</u> <ul style="list-style-type: none"><li>Define buffer.</li><li>Describe the mechanism of buffer action</li><li>List the major sources of acids in the body</li><li>List the various buffer systems in plasma and the erythrocytes</li><li>Define ‘alkali reserve’</li><li>Discuss the different mechanisms which regulate the pH of blood</li><li>Identify the first line of defense</li><li>Describe the buffering action of plasma proteins and hemoglobin</li></ul>	BIOCHEM	LECTURE	60 MINS	DR IFFAT	LECTURE HALL 1
<b>ACCLIMATIZATION-II:</b> <u>At the end of this lecture 1<sup>st</sup> year students will be able to:</u> <ul style="list-style-type: none"><li>Summarize the changes in peripheral circulation during acclimatization.</li><li>Discuss the O<sub>2</sub>-Hb dissociation curve at high altitude.</li><li>Identifies the natural acclimatization of natives in high altitude</li><li>Summarizes acute pulmonary edema during quick ascend.</li><li>Summarizes chronic mountain sickness.</li></ul>	PHYSIO	LECTURE	60 MINS	DR QAMAR AZEEZ	LECTURE HALL 1
<b>DEEP SEA DIVING:</b> <u>At the end of this lecture 1<sup>st</sup> year students will be able to:</u> <ul style="list-style-type: none"><li>Discuss the oxygen hemoglobin dissociation curve at high pO<sub>2</sub>.</li><li>Define oxygen toxicity at high pressures.</li><li>Define decompression sickness (caisson’s/ dysbarism, and bends disease).</li><li>Discuss the symptoms of decompression sickness.</li><li>Explain scuba diving</li><li>Explain the significance of hyperbaric O<sub>2</sub> therapy.</li></ul>	PHYSIO	LECTURE	60 MINS	DR M ALI	LECTURE HALL 1



**BAQAI MEDICAL UNIVERSITY  
BAQAI MEDICAL COLLEGE  
FIRST PROFESSIONAL M.B.B.S.**

**MODULAR GUIDE 2024-25 - RESPIRATION**

<b>PULMONARY TUBERCULOSIS</b> <u><b>At the end of this lecture 1<sup>st</sup> year students will be able to:</b></u> <ul style="list-style-type: none"><li>• Interpret etiology and pathophysiology of the disease</li><li>• Recall clinical manifestations of pulmonary tuberculosis</li><li>• Explain various investigations done to diagnose the disease</li><li>• Constitute a treatment plan to treat the patient suffering from the disease</li></ul>	<b>MEDICINE</b>	<b>LECTURE</b>	<b>60 MINS</b>	<b>DR MASOODA</b>	<b>LECTURE HALL 1</b>
<b>ROLE OF RESPIRATION IN ACID-BASE BALANCE</b> <u><b>At the end of this lecture 1<sup>st</sup> year students will be able to:</b></u> <ul style="list-style-type: none"><li>• Explain the mechanism of bicarbonate buffer system in blood</li><li>• Identify the link between bicarbonate buffer system and respiration.</li><li>• Explain the role of respiration in pH regulation</li></ul>	<b>BIOCHEM</b>	<b>LECTURE</b>	<b>60 MINS</b>	<b>DR IFFAT</b>	<b>LECTURE HALL 1</b>



BAQAI MEDICAL UNIVERSITY  
BAQAI MEDICAL COLLEGE  
FIRST PROFESSIONAL M.B.B.S.  
MODULAR GUIDE 2024-25 - RESPIRATION

TENTATIVE TIME TABLES FOR RESPIRATORY MODULE 2024-2025:

WEEK 1

DAYS	8:30-9:30	9:30-10:30	10:30-11:00	11:00-12:00	12:00-1:00	1:00 - 1:30	1:30-2:00	2:00-4:00
MONDAY 26-08-2024	CVS MODULE EXAM		TEA BREAK	CVS MODULE EXAM		LUNCH AND PRAYERS	CVS MODULE EXAM	
TUESDAY 27-08-2024	ANATOMY DEVELOPMENT OF STERNUM RIBS & VERTEBRAE DR TAYYABA	ISLAMIAT MR AMIR		ANATOMY STERNUM DR ANEELA	ANATOMY THORACIC CAGE DR HINA		B.SCIENCES MISS AZRA SHAHEEN	BIOCHEM INTRODUCTION OF LIPIDS Dr Farhan
WEDNESDAY 28-08-2024	PEARLS	ANATOMY DEVELOPMENT OF THORACIC WALL MUSCULATURE & DIAPHRAGM WITH ITS ANOMALIES DR TAYYABA		ANATOMY GENERAL FEATURES + ATTACHMENT OF ATYPICAL RIBS DR AYESHA	ANATOMY GROSS FEATURES OF THORACIC VERTEBRAE DR ANEELA		ANATOMY GENERAL FEATURES + ATTACHMENT OF TYPICAL RIBS DR HINA	ANATOMY INTER COSTAL SPACES DR AYESHA
THURSDAY 29-08-2024	ANATOMY INTER COSTAL NEUROVASCULATURE DR ANEELA	ANATOMY DEVELOPMENT OF NOSE & UPPER RESPIRATORY TRACT& ITS ANOMALIES DR TAYYABA		ANATOMY JOINTS OF THORACIC CAGE DR HINA	ANATOMY NOSE DR AYESHA		ANATOMY HISTOLOGY OF NOSE PROF DR SYED INAYAT	ANATOMY DEVELOPMENT OF LARYNX AND TRACHEA & ITS ANAMOLIES DR TAYYABA
FRIDAY 30-08-2024	ANATOMY DIAPHARGM DR ANEELA	ANATOMY LARYNX DR AYESHA		ANATOMY HISTOLOGY OF LARYNX PROD DR SYED INAYAT	ANATOMY TRACHEA DR ANEELA		ANATOMY HISTOLOGY OF TRACHEA PROF DR SYED INAYAT	PHYSIO RESPIRATORY PASSAGES, COUGH AND SNEEZING REFLEX DR M ALI

WEEK 2

DAYS	8:30-9:30	9:30-10:30	10:30-11:00	11:00- 4:00
MONDAY 02-09-2024	PHARMA OVERVIEW OF PHARMACOLOGY OF COUGH DR. HINA	ANATOMY DEVELOPMENT OF BODY CAVITIES DR TAYYABA	TEA BREAK	SPORTS WEEK
TUESDAY 03-09-2024	ANATOMY PLEURA DR ANEELA	ISLAMIAT MR AMIR		SPORTS WEEK
WEDNESDAY	PATHO PLUERAL LESIONS DR NASIMA IQBAL	PEARLS		SPORTS WEEK





BAQAI MEDICAL UNIVERSITY  
BAQAI MEDICAL COLLEGE  
FIRST PROFESSIONAL M.B.B.S.

MODULAR GUIDE 2024-25 - RESPIRATION

04-09-2024				
THURSDAY	ANATOMY DEVELOPMENT OF LUNG & ITS DEVELOPMENTAL ANOMALIES DR TAYYABA	ANATOMY LUNGS DR HINA		SPORTS WEEK
05-09-2024				
FRIDAY	DEFENCE DAY			DEFENCE DAY
06-09-2024				

WEEK 3

DAYS	8:30-9:30	9:30-10:30	10:30-11:00	11:00-12:00	12:00-1:00	1:00 - 1:30	1:30-2:00	2:00-4:00
MONDAY 09-09-2024	PHYSIO ALVEOLAR VENTILATION AND DEAD SPACE DR ADNAN	PHYSIO MECHANICS OF PULMONARY VENTILATION DR M.ALI	TEA BREAK	PHYSIO Pulmonary Circulation, 3 Zones According To Blood Flow DR. SOBIA	SURGERY Surgical Overview In Lung & Pleural Disease DR DANISH	LUNCH AND PRAYERS	LRC ANATOMY DR HINA	PRACTICAL: BIO:SPECTROPHOTOMETRY DR FARHAN HISTO : HISTOLOGY OF LARYNX DR ANEELA PHYSIO: SPIROMETRY DR M ALI
TUESDAY 10-09-2024	PHYSIO Pulmonary Volumes And Capacities DR. M.ALI	ISLAMIAT MR AMIR		PHYSIO Compliance Of The Lungs DR QAMER AZIZ	BIO Phospholipids DrR FARHAN		PHYSIO Surfactant DR. SABA LEEZA	PRACTICAL: BIO: SPECTROPHOTOMETRY DR FARHAN HISTO : HISTOLOGY OF LARYNX DR ANEELA PHYSIO: SPIROMETRY DR M ALI
WEDNESDAY 11-09-2024	BIO Glycolipids DR FARHAN	COMMUNITY.MEDICINE Prevention Of Respiratory Diseases DR AMMARA		PEARLS	PATHO Acute Lung Injury DR Naseema		SDL	PRACTICAL: BIO: SPECTROPHOTOMETRY DR FARHAN HISTO : HISTOLOGY OF LARYRX DR ANEELA PHYSIO: SPIROMETRY DR M ALI
THURSDAY 12-09-2024	PHYSIO Pulmonary Capillary Dynamics, Pulmonary Edema DR M ALI	B.SCIENCES MISS AZRA SHAHEEN		PATHO Vascular Lung Disorders DR NASEEMA	BIO Formative .Assessment DR FARHAN		SDL	BIO Fatty Acids, Glycerol And Essential Fatty Acids I DR FARHAN
FRIDAY 13-09-2024	BIO Fatty Acids, Glycerol And Essential Fatty Acids II DR FARHAN	BIO Biological Oxidation-I DR IFFAT		PHYSIO Transport Of Oxygen DR.M.ALI	RESEARCH		SDL	PHYSIO O <sub>2</sub> -Hb Dissociation Curve I DR. M.ALI

WEEK 4



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BAQAI MEDICAL COLLEGE  
FIRST PROFESSIONAL M.B.B.S.

MODULAR GUIDE 2024-25 - RESPIRATION

MODULAR GUIDE 2024-25 - RESPIRATION								
DAYS	8:30-9:30	9:30-10:30	10:30-11:00	11:00-12:00	12:00-1:00	1:00-1:30	1:30-2:00	2:00-4:00
MONDAY 16-09-2024	EID MILAD-un NABI		TEA BREAK	EID MILAD-un NABI		LUNCH AND PRAYERS	EID MILAD-un NABI	
TUESDAY 17-09-2024	PHYSIO  O <sub>2</sub> -Hb Dissociation CurveII DR M ALI	ISLAMIAT  MR AMIR		BIO Biological Oxidation-II DR BENISH	PHYSIO  Transportation Of Co2 DR. M. Ali		SDL	PRACTICAL: BIO:SPECTROPHOTOMETRY DR FARHAN HISTO HISTOLOGY OF TRACHEA DR ANEELA PHYSIO:PULSE OXIMETER DR M.ALI
WEDNESDAY 18-09-2024	PAEDS Respiratory Illness In Children DR SABA	GYNEA  Respiratory Changes During Pregnancy DR NIKHAT		BIOETHICS	PHYSIO  Regulation Of Respiration During Exercise DR. M. Ali		SDL	PRACTICAL: BIO:SPECTROPHOTOMETRY DR FARHAN HISTO HISTOLOGY OF TRACHEA DR ANEELA PHYSIO:PULSE OXIMETER DR M.ALI
THURSDAY 19-09-2024	PHYSIO  Regulation Of Respiration DR M ALI	C.MEDICINE Tobacco And Its Effects On Respiratory System DR AMARA		PRACTICAL: BIO:SPECTROPHOTOMETRY DR FARHAN HISTO HISTOLOGY OF TRACHEA DR ANEELA PHYSIO:PULSE OXIMETER DR M.ALI			SDL	PHYSIO  Chemical Control Of Respiration DR. M. Ali
FRIDAY 20-09-2024	PATHO Restrictive & Obstructive Lung Diseases  DR MUNAZZA	MEDICINE COPD DR MASOODA		PATHO ASTHMA  DR NASIMA IQBAL	PHARMA Overview of pharmacology of Asthma DR HINA		SDL	BIO Ecosanoids I Dr Farhan

WEEK 5

DAYS	8:30-9:30	9:30-10:30	10.30-11:00	11:00-12:00	12:00-1:00	1:00-1:30	1:30-2:00	2:00-4:00
MONDAY 23-09-2024	BIO ECOSANOIDS II Dr Farhan	MEDICINE ASTHMA DR MASOODA	TEA BREAK	FORENSIC MEDICINE ASPHYXIA-I DR RAFAY	PHYSIO Hypoxia And O <sub>2</sub> Therapy DR. M. Ali	LUNCH AND PRAYERS	SDL	PRACTICAL PHYSIO: PEAK EXPIRATORY FLOW RATE & CHEST AUSCULTATION DR SABA LEEZA BIO : Introduction To Practicals Of Estimation Of Biochemical Parameters DR FARHAN ANA: HISTOLOGY OF LUNGS DR ANEELA
TUESDAY 24-09-2024	BIO Oxidation Of Even Chain FattyAcids I Dr Iffat	ISLAMIAT MR AMIR		PHYSIO Cyanosis Dr. M. Ali	BIO Introduction To Acid Base Balance DR IFFAT		SDL	PRACTICAL PHYSIO: PEAK EXPIRATORY FLOW RATE & CHEST AUSCULTATION DR SABA LEEZA BIO : Introduction To Practicals Of Estimation Of Biochemical Parametes DR FARHAN ANA: HISTOLOGY OF LUNGS DR ANEELA
WEDNESDAY 25-09-2024	PHYSIO Artificial Respirati on Dr. Adnan	PATHO PulmonaryI nfection DR NASEEMA		CBL	PHYSIO Hypercapnia DR. ADNAN		SDL	PRACTICAL PHYSIO: PEAK EXPIRATORY FLOW RATE & CHEST AUSCULTATION DR SABA LEEZA BIO : Introduction To Practicals Of Estimation Of Biochemical Parameters DR FARHAN ANA: HISTOLOGY OF LUNGS DR ANEELA
THURSDAY 26-09-2024	FORENSICMEDICINE Asphyxia-II DR RAFEY	PHYSIO Acclimatiation-I Dr. M ALI		BIO Energetics of betaOxidation Of Fatty Acids DR IFFAT	COMMUNITY MEDICINE PNEUMONIA DR AMMARA		SDL	BIO Buffers DR IFFAT
FRIDAY 27-09-2024	PHYSIO Acclimatization-II Dr.QamrAziz	PHYSIO Deep Sea Diving DR M ALI		MEDICINE Pulmonary Tuberculosis Dr Masooda	BIO Role Of Respiration In Acid-Base Balance DR IFFAT		SDL	ANATOMY LRC DRANEELA



**BAQAI MEDICAL UNIVERSITY  
BAQAI MEDICAL COLLEGE  
FIRST PROFESSIONAL M.B.B.S.  
MODULAR GUIDE 2024-25 - RESPIRATION**

**REFERENCE BOOKS AND OTHER READING RESOURCES:**

Gross Anatomy	BD Chaurasia's <b>Handbook of GENERAL ANATOMY</b> <b>Netter Atlas of Human Anatomy</b>
Embryology	<b>Langman’s Embryology</b>
Histology	<b>Laiq Hussain Histology</b>
Physiology	<b>Guyton and Hall.</b> Textbook of Medical Physiology, 13 <sup>th</sup> Edition. <b>Ganong's</b> Review of Medical Physiology, 24th Edition.
Biochemistry	<b>Textbook of Medical Biochemistry M.N. Chatterjee and Rana Shinde</b> <b>Textbook of Biochemistry for Medical Students Damodaran M Vasudevan and S. Sreekumari</b>
Pathology	Robin`s Basic Pathology-10 <sup>th</sup> Edition
Pharmacology	<u><b>Essential</b></u> <ul style="list-style-type: none"><li>• <b>Bertram G. Katzung.</b> Basic and Clinical Pharmacology, 14<sup>th</sup> Edition. 2017.</li><li>• <b>Katzung and Trevor's pharmacology</b> Examination and Board Review 11<sup>th</sup> Edition 2015.</li></ul> <u><b>Recommended</b></u> <ul style="list-style-type: none"><li>• <b>Lippincott’s illustrated review of Pharmacology.</b> 6<sup>th</sup> Edition. 2015.</li></ul>
Islamiat	<ul style="list-style-type: none"><li>• Hameed ullah Muhammad, “Emergence of Islam” , IRI, Islamabad, “Muslim Conduct of State” and "Introduction to Islam".</li><li>• Hussain Hamid Hassan, “An Introduction to the Study of Islamic Law” leaf Publication Islamabad, Pakistan.</li><li>• Abdul Qayyum Natiq, "Sirat-E-Mustaqim.</li></ul>



**BAQAI MEDICAL UNIVERSITY  
BAQAI MEDICAL COLLEGE  
FIRST PROFESSIONAL M.B.B.S.**

**MODULAR GUIDE 2024-25 - RESPIRATION**

	<ul style="list-style-type: none"><li>Farkhanda Noor Muhammad, "Islamiat".</li><li>Dr. Muhammad Zia-ul-Haq, "Introduction to Al Sharia Al Islamia" Allama Iqbal Open University, Islamabad (2001).</li></ul>
Community Medicine	Ilyas M, Public Health and Community Medicine, 7 <sup>th</sup> Edition, Karachi, Pakistan, Time Publisher, 2007.  Maxcy-Rosenau-Last, public Health and Preventive Medicine, 13 <sup>th</sup> Edition, USA, Prentice-Hall International Inc, 1992.  K.Park, Preventive and Social Medicine, 20 <sup>th</sup> Edition, Jabalpur (India), M/s Banarsidas Bhanot, Publisher, 2009.
Medicine	Davidson`s Principles and Practice of Medicine-22 <sup>nd</sup> Edition
Clinical Examination	Talley and O'Connor's Clinical Examination-6 <sup>th</sup> Edition
Surgery	Bailey And Love Short Practice Of Surgery, 27 <sup>th</sup> Edition  Last`s anatomy 12 <sup>th</sup> edition  Snell`s anatomy by regions 10 <sup>th</sup> edition
Research	Introduction to Research in Health Sciences- Stephen Polgar, Shane A. Thomas. Biomedical Research Proposal Writing- Syed Sharaf Ali Shah, Zarfshan Tahir, Rozina Karmaliani. Epidemiology - Leon Gordis; Fifth Edition.
PEARLs	<a href="https://www.mededportal.org/publication/10610/">https://www.mededportal.org/publication/10610/</a>
PAEDS	Nelson Textbook of Pediatric 21 <sup>st</sup> edition.  Textbook of Paediatrics (PPA) Fifth edition. Basis of Pediatrics (Pervez Akbar Khan) 10 <sup>th</sup> edition

**ASSESSMENT METHODS:**

**THEORY:**

- ❖ **Essay Questions- Short Essay Questions (SEQs)** are used to assess objectives covered in each module.
  - 6 SEQs are given (no choice).
  - Time duration 90 minutes.
  - Students write their answer in an answer sheet.
- ❖ **Multiple Choice Questions (MCQs)** also known as MCQs (Multiple Choice Questions) are used to assess objectives covered in each module.
  - A MCQ has a statement or clinical scenario followed by four options (likely answer).
  - Students after reading the statement/scenario select ONE, the most appropriate response from the given list of options.
  - Correct answer carries one mark, and incorrect ‘zero mark’. There is no negative marking.
  - Students mark their responses on specified computer-based/OMR sheet designed for BMC, BMU.
- ❖ **OSPE/OSCE: Objective Structured Practical/Clinical Examination:**
  - Each student will be assessed on the same content and have same time to complete the task.
  - Comprise of 12-25 stations.
  - Each station may assess a variety of clinical tasks; these tasks may include history taking, physical examination, skills and application of skills and knowledge.
  - Stations are observed, unobserved, interactive and rest stations.
  - Observed and interactive stations will be assessed by internal or external examiners.



**BAQAI MEDICAL UNIVERSITY  
BAQAI MEDICAL COLLEGE  
FIRST PROFESSIONAL M.B.B.S.**

**MODULAR GUIDE 2024-25 - RESPIRATION**

- Unobserved will be static stations in which there may be an X-ray, Labs reports, pictures, clinical scenarios with related questions for students to answer.
- Rest station is a station where there is no task given and in this time student can organize his/her thoughts.

**INTERNAL EVALUATION:**

- Students will be assessed to determine achievement of module objectives through the following: o **Module Examination:** will be scheduled on completion of each module. The method of examination comprises theory exam which includes BCQs and OSPE (Objective Structured Practical Examination).
- **Graded Assessment of students by Individual Department:** Quiz, viva, practical, assignment, small group activities such as CBL, online assessment, ward activities, examination, and Practical journals.
- Marks of both modular examination and graded assessment will constitute 20% weightage which will be added to Annual Examination.

**FORMATIVE ASSESSMENT:**

- Individual department may hold quiz or short answer questions to help students assess their own learning.
- The marks obtained are not included in the internal evaluation.

**More than 75%  
attendance is needed to sit  
for the modular and final  
examinations**